United States Patent [19] Kamens et al.

[54]	ACOUSTIC ALARM SETTING DEVICE FOR A TIMEPIECE				
[75]	Inventors:		nce H. Kamens, Thomaston; orge E. Ritter, Southbury, both of nn.		
[73]	Assignee:	Tin Co	nex Corporation, Waterbury, nn.		
[21]	Appl. No.:	780	,134		
[22]	Filed:	Sep	. 25, 1985		
[51]	Int. Cl.4		H01H 43/00 ; G04C 9/08		
	U.S. Cl				
			368/251		
[58]	[8] Field of Search				
			3/107–109, 185, 187, 250–251, 255		
[56]		Re	eferences Cited		
U.S. PATENT DOCUMENTS					
	4,196,583 4/	1980	Komaki		

4,209,976 7/1980 Flumm 368/187

[11]	Patent	Number:
------	--------	---------

4,618,264 Oct. 21, 1986

4,477,194 10/1984 Michel et al. 368/69

		•
4,246,650	7/1981	Moritani et al 368/69
4,253,177	2/1981	Hafner 368/187
4,376,993	3/1983	Freeman 368/74

Primary Examiner-Vit W. Miska

Attorney, Agent, or Firm-William C. Crutcher

ABSTRACT [57]

An electronic alarm timepiece has a rotatable ring producing clicks when the ring is rotated from a first position aligned with one of the hands to a second position at which the alarm will be actuated when the hand reaches such position. The clicks are transmitted to the electronic timepiece logic through the same piezoelectric transducer which produces the alarm sound. The logic means actuates the alarm after an elapsed time which is proportional to the number of clicks counted when the ring is rotated.

13 Claims, 8 Drawing Figures

